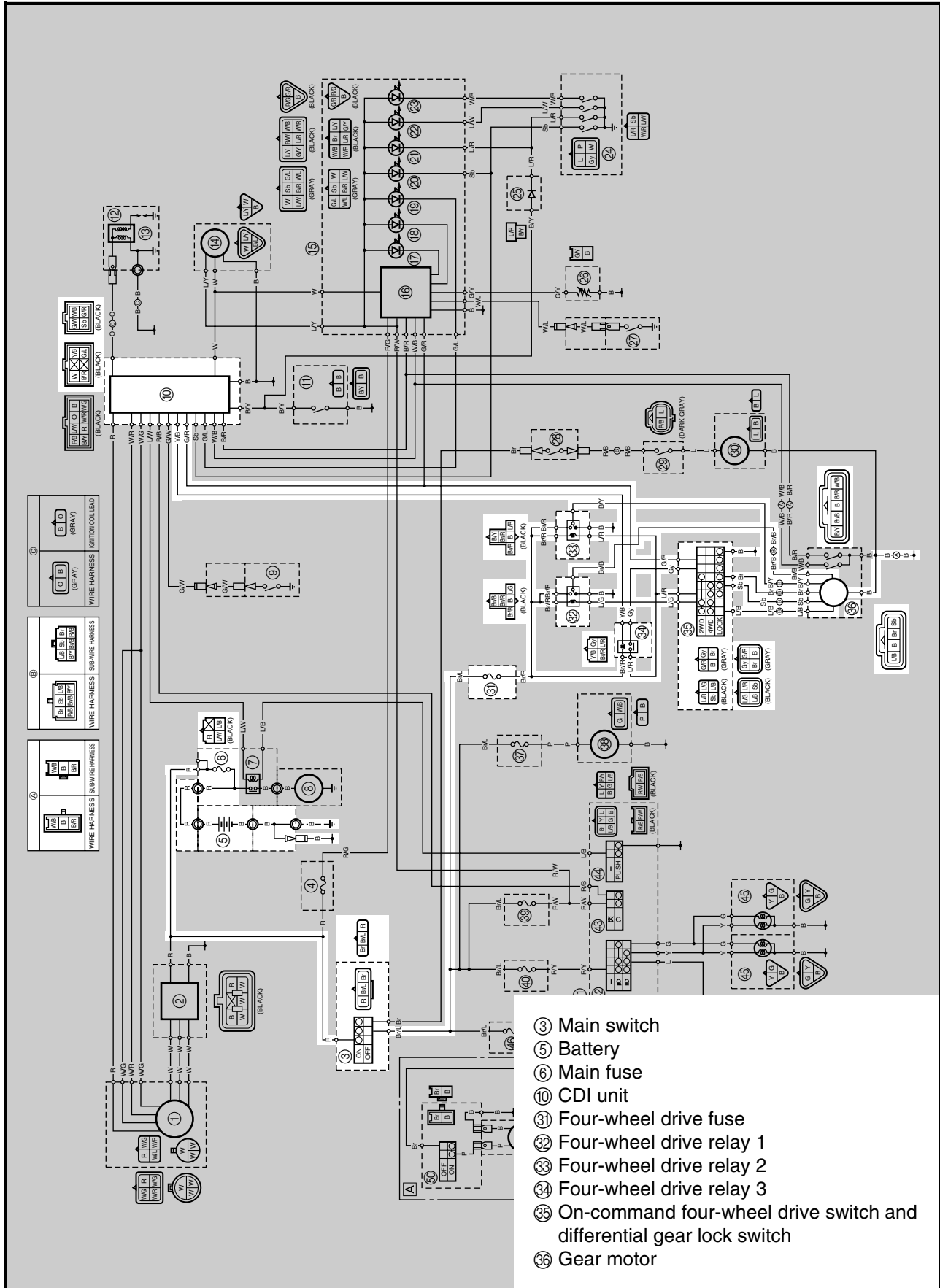
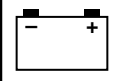


2WD/4WD SELECTING SYSTEM  
CIRCUIT DIAGRAM



- ③ Main switch
- ⑤ Battery
- ⑥ Main fuse
- ⑩ CDI unit
- ⑳ Four-wheel drive fuse
- ㉑ Four-wheel drive relay 1
- ㉒ Four-wheel drive relay 2
- ㉓ Four-wheel drive relay 3
- ㉔ On-command four-wheel drive switch and differential gear lock switch
- ㉕ Gear motor



EB803020

**TROUBLESHOOTING**

**IF THE FOUR-WHEEL DRIVE INDICATOR FAILS TO COME ON:**

**Procedure**

Check:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1.Fuse (main, four-wheel drive)</li> <li>2.Battery</li> <li>3.Main switch</li> <li>4.Four-wheel drive relay 1</li> <li>5.Four-wheel drive relay 2</li> <li>6.Four-wheel drive relay 3</li> </ul> | <ul style="list-style-type: none"> <li>7.On-command four-wheel drive switch and differential gear lock switch</li> <li>8.Gear motor</li> <li>9.Wiring connections (the entire 2WD/4WD selecting system)</li> </ul> |
|---|--|

**NOTE:**

- Remove the following part(s) before troubleshooting:
  - 1)Seat
  - 2)Front carrier
  - 3)Front fender
- Use the following special tool(s) for troubleshooting.

	<p><b>Pocket tester:</b> P/N. YU-03112, 90890-03112</p>
--	---

EB802011

1.Fuse (main, four-wheel drive)

---

Refer to "CHECKING THE SWITCH".

↓ CONTINUITY

NO CONTINUITY

↓

Replace the fuse.

EB802012

2.Battery

---

- Check the battery condition. Refer to "CHECKING THE BATTERY" in CHAPTER 3.

---

**Open-circuit voltage:**  
**12.8 V or more at 20 °C (68 °F)**

↓ CORRECT

INCORRECT

↓

- Clean the battery terminals.
- Recharge or replace the battery.

3.Main switch

---

Refer to "CHECKING THE SWITCH".

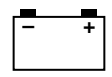
↓ CORRECT

\*

INCORRECT

↓

Replace the main switch.



**4. Four-wheel drive relay 1**

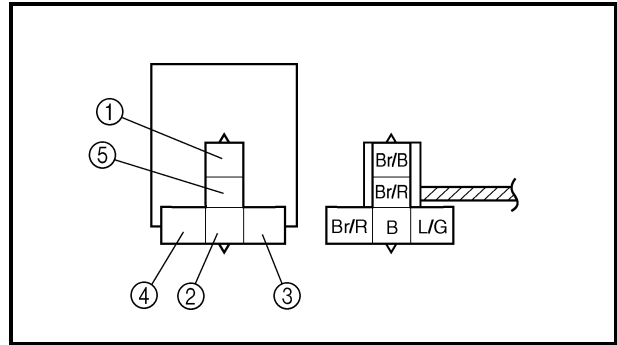
- Remove the four-wheel drive relay 1 from the wire harness.
- Connect the pocket tester ( $\Omega \times 1$ ) and the battery (12 V) to the four-wheel drive relay 1 terminals.

**Tester (+) lead** → **Brown/Black terminal ①**  
**Tester (-) lead** → **Black terminal ②**

**Battery (+) terminal** → **Brown/Red terminal ③**  
**Battery (-) terminal** → **Blue/Green terminal ④**

**Tester (+) lead** → **Brown/Black terminal ①**  
**Tester (-) lead** → **Brown/Red terminal ⑤**

- Check the four-wheel drive relay 1 for continuity.



NO CONTINUITY



Replace the four-wheel drive relay 1.



**5. Four-wheel drive relay 2**

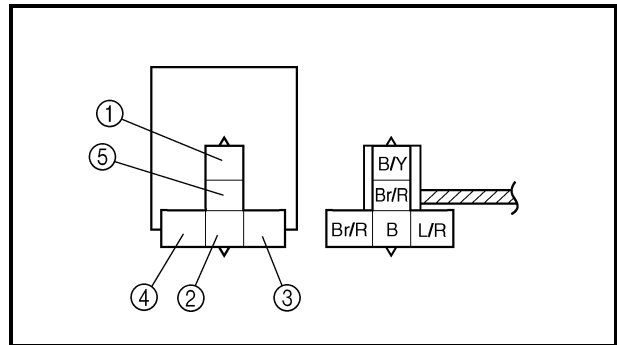
- Remove the four-wheel drive relay 2 from the wire harness.
- Connect the pocket tester ( $\Omega \times 1$ ) and the battery (12 V) to the four-wheel drive relay 2 terminals.

**Tester (+) lead** → **Black/Yellow terminal ①**  
**Tester (-) lead** → **Black terminal ②**

**Battery (+) terminal** → **Brown/Red terminal ③**  
**Battery (-) terminal** → **Blue/Red terminal ④**

**Tester (+) lead** → **Black/Yellow terminal ①**  
**Tester (-) lead** → **Brown/Red terminal ⑤**

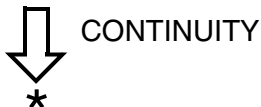
- Check the four-wheel drive relay 2 for continuity.

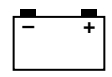


NO CONTINUITY

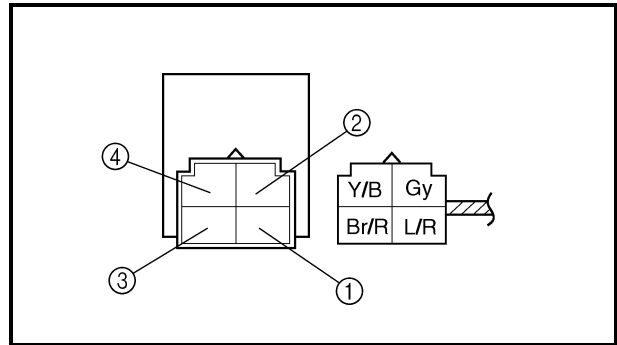


Replace the four-wheel drive relay 2.





<b>6. Four-wheel drive relay 3</b>	
<ul style="list-style-type: none"> <li>● Remove the four-wheel drive relay 3 from the wire harness.</li> <li>● Connect the pocket tester (<math>\Omega \times 1</math>) and the battery (12 V) to the four-wheel drive relay 3 terminals.</li> </ul>	
<b>Tester (+) lead</b> →	<b>Brown/Red terminal ①</b>
<b>Tester (-) lead</b> →	<b>Yellow/Black terminal ②</b>
<b>Battery (+) terminal</b> →	<b>Brown/Red terminal ①</b>
<b>Battery (-) terminal</b> →	<b>Yellow/Black terminal ②</b>
<b>Tester (+) lead</b> →	<b>Blue/Red terminal ③</b>
<b>Tester (-) lead</b> →	<b>Gray terminal ④</b>
<ul style="list-style-type: none"> <li>● Check the four-wheel drive relay 3 for continuity.</li> </ul>	



NO CONTINUITY

Replace the four-wheel drive relay 3.

CONTINUITY

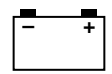
<b>7. On-command four-wheel drive switch and differential gear lock switch</b>	
Refer to "CHECKING THE SWITCH".	

INCORRECT

Replace the on-command four-wheel drive switch and differential gear lock switch.

CORRECT

\*



8. Gear motor

- Disconnect the gear motor coupler.
- Remove the gear motor from the differential gear case.  
Refer to “FRONT CONSTANT VELOCITY JOINTS AND DIFFERENTIAL GEAR” in CHAPTER 7.
- Connect two C size batteries to the gear motor terminals ① (as shown illustrations).

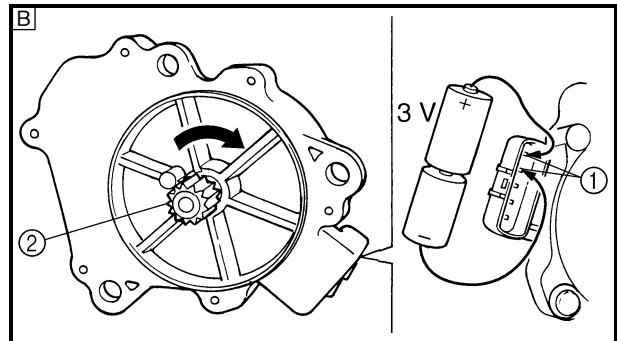
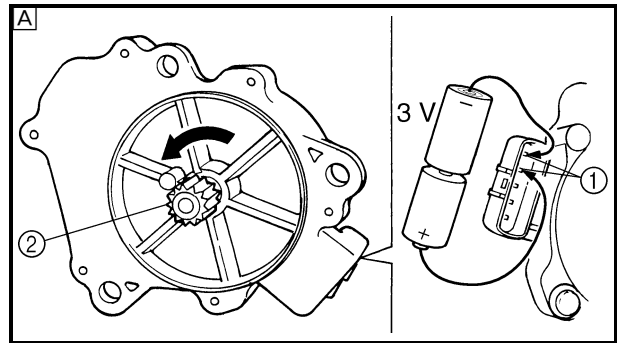
[A] Check that the pinion gear ② turns counter-clockwise.

[B] Check that the pinion gear ② turns clockwise.

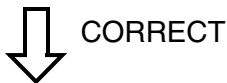
- Make sure that the drive gear (shift fork sliding gear) operates correctly.

**NOTE:**

When installing the differential gear case in the gear motor, refer to “FRONT CONSTANT VELOCITY JOINTS AND DIFFERENTIAL GEAR” in CHAPTER 7.



INCORRECT



Replace the gear motor.

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9. Wiring connection

- Check the connections of the entire 2WD/4WD selecting system.  
Refer to “CIRCUIT DIAGRAM”.



POOR CONNECTION

Properly connect the 2WD/4WD selecting system.

Replace the meter assembly.